



18188 - Completing the Hyades High-Energy Main Sequence

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Thomas R. Ayres (PI) (Contact)	University of Colorado at Boulder

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD-25825	COS/FUV COS/NUV	1	05-Nov-2025 09:00:13.0	yes
02	(2) HD-26736	COS/FUV COS/NUV	1	05-Nov-2025 09:00:13.0	yes
03	(3) HD-26767	COS/FUV COS/NUV	1	05-Nov-2025 09:00:14.0	yes
04	(4) HD-27250	COS/FUV COS/NUV	1	05-Nov-2025 09:00:14.0	yes
05	(5) HD-27282	COS/FUV COS/NUV	1	05-Nov-2025 09:00:14.0	yes
06	(6) HD-27406	COS/FUV COS/NUV	1	05-Nov-2025 09:00:15.0	yes
07	(7) HD-28205	COS/FUV COS/NUV	1	05-Nov-2025 09:00:15.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
08	(8) HD-28237	COS/FUV COS/NUV	1	05-Nov-2025 09:00:16.0	yes
09	(9) HD-28593	COS/FUV COS/NUV	1	05-Nov-2025 09:00:16.0	yes
10	(10) HD-28992	COS/FUV COS/NUV	1	05-Nov-2025 09:00:16.0	yes
11	(11) HD-29419	COS/FUV COS/NUV	1	05-Nov-2025 09:00:17.0	yes
12	(12) HD-30589	COS/FUV COS/NUV	1	05-Nov-2025 09:00:17.0	yes

12 Total Orbits Used

ABSTRACT

The nearby Hyades cluster ($d=47$ pc) is a gold standard for the Solar-Stellar Connection: it presents an accessible, well-populated Main Sequence of Sunlike stars of the same age (~ 600 Myr) and chemical composition; ideal subjects to test the origins and consequences of high-energy (X-rays and ultraviolet) magnetic activity. An existing joint Chandra/HST project has covered the cooler part of the Hyades MS, G9V-K7V. The present proposal is to complete the MS coverage with new HRC-I and COS pointings on the warmer side, F7-G6. Chandra X-rays and HST FUV emission lines provide complementary views of the multi-MK coronal activity, to help constrain theories of exoplanet atmospheric escape as well as the dynamo generation of stellar magnetic fields.

OBSERVING DESCRIPTION

The objective of the observing program is to obtain full-coverage FUV spectra of 12 sunlike stars in the nearby Hyades open cluster ($d\sim 47$ pc). The stars in the cluster are young (~ 600 Myr), rotating more rapidly than the 4.5 Gyr Sun, and are expected to display hot outer atmospheres (10,000 K - 10 MK) symptomatic of strong magnetic dynamo activity. The resulting FUV spectra will be dominated by strong emission lines, such as C II 133 nm (30,000 K), Si III 120 nm (50,000 K), Si IV 139 nm (80,000 K), C IV 154 nm (100,000 K), and N V 123 nm (200,000 K). FUV line intensities of the Hyades targets can be estimated from HST/STIS spectra of young field stars of the solar neighborhood, such as Chi1 Orionis (G0V), and are expected to be too faint for the STIS echelle modes, and marginal for the COS G modes, at least in the 1-orbit pointings desirable for a survey program (in support of a Chandra survey of the coronal X-ray emissions of the stars). This leaves the more sensitive L modes of both STIS and COS

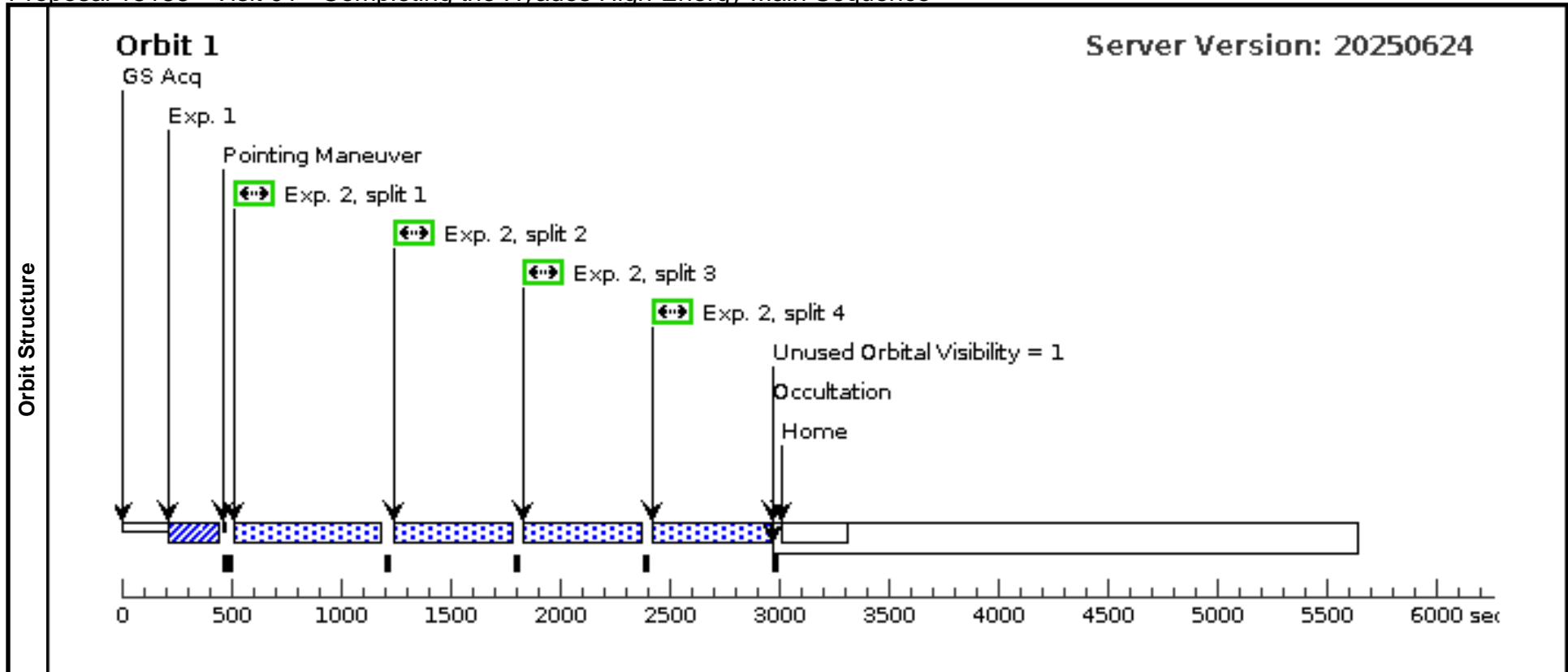
Proposal 18188 (STScI Edit Number: 0, Created: Wednesday, November 5, 2025, 9:00:18AM Eastern Standard Time) - Overview
as options to obtain high-quality FUV tracings (integrated line intensities with S/N close to, or exceeding, 20:1). The COS G140L-1105 setting is preferred over STIS G140L-1425, because the COS version has significantly higher spectral resolution, important for separating close spectral blends.

The targets are captured using a COS NUV imaging ACQ, which requires the Bright Object Aperture and Mirror-A or B depending on the target brightness. The COS ETC-predicted ACQ exposure times, based on the target V magnitude and appropriate Castelli-Kurucz model SEDs, range from a few seconds to about 40 s. The subsequent G140L-1105 exposure is in Time-Tag mode, on Segment A, utilizing the four default FP-POS splits, to fill out the single orbit. The per-split exposure times vary from 462-485 s, for a total of about 1.9 ks. The S/N estimates in the COS spectroscopic ETC were obtained using a distance-scaled STIS FUV+NUV spectrum of the Hyades-age G0V star Chi1 Ori, mentioned earlier. There were no safety issues identified by the ETC. (The bright Lyman-alpha line predicted from the reference star Chi1 Ori was not flagged by the ETC, and the actual hydrogen intensity for the Hyades stars would be further reduced by the additional ISM absorption between 9 pc Chi1 Ori and the 47 pc cluster members.)

Proposal 18188 - Visit 01 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

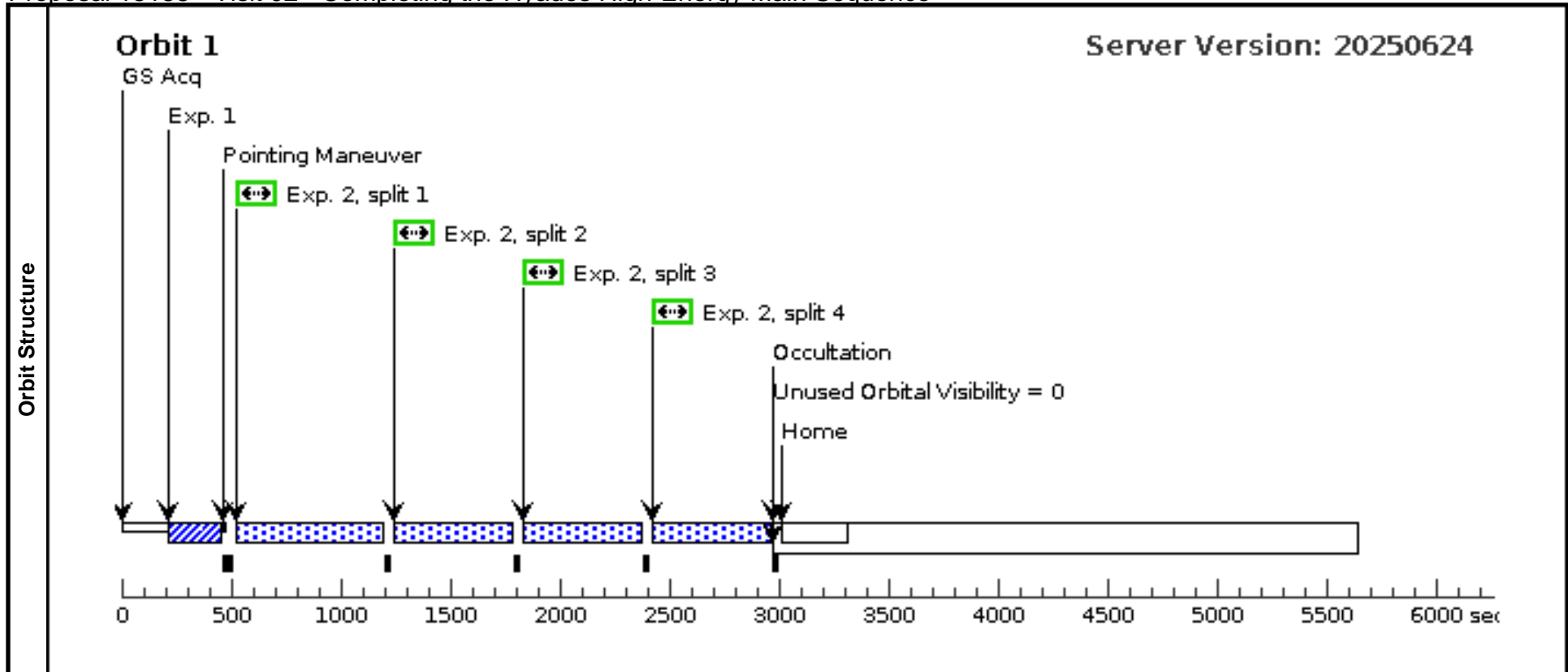
Visit	Proposal 18188, Visit 01, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																											
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Proposal 18188 - Visit 02 - Completing the Hyades High-Energy Main Sequence

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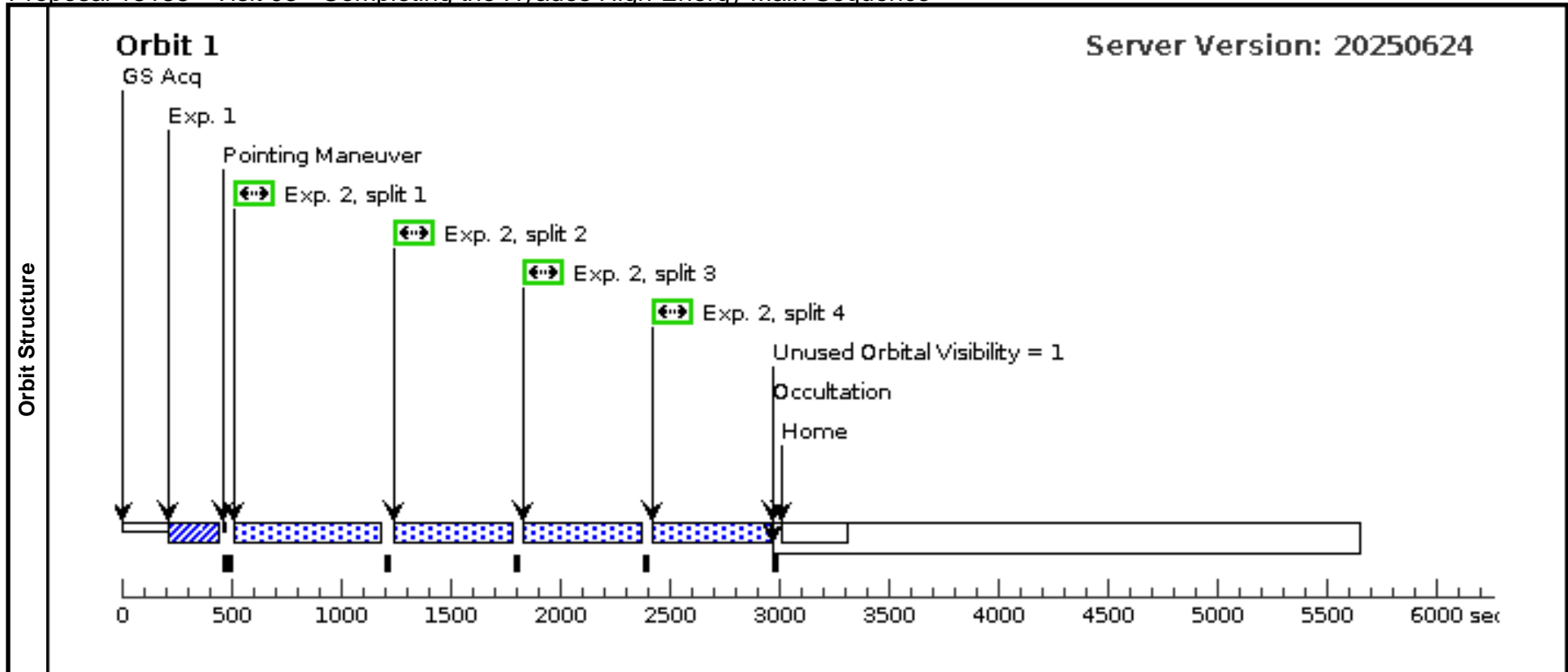
Visit	Proposal 18188, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																											
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Proposal 18188 - Visit 03 - Completing the Hyades High-Energy Main Sequence

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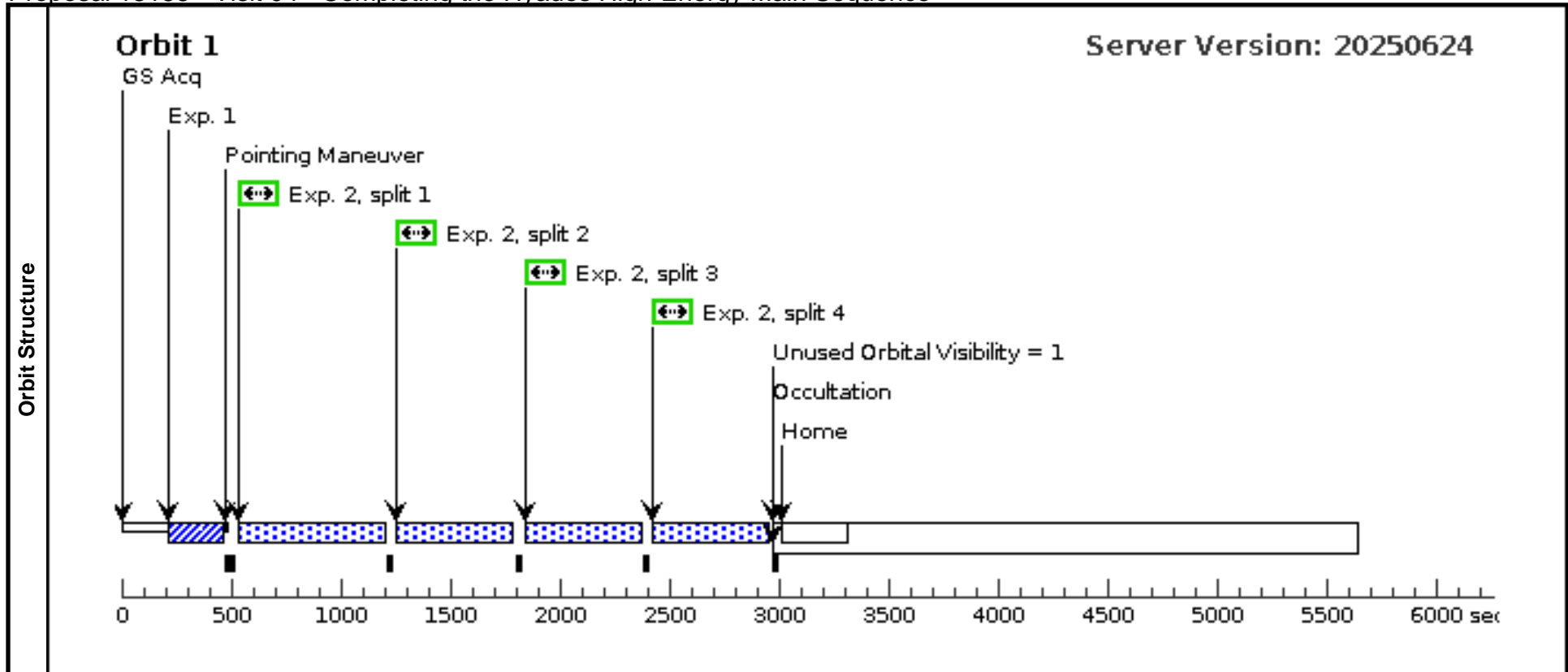
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
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Proposal 18188 - Visit 04 - Completing the Hyades High-Energy Main Sequence

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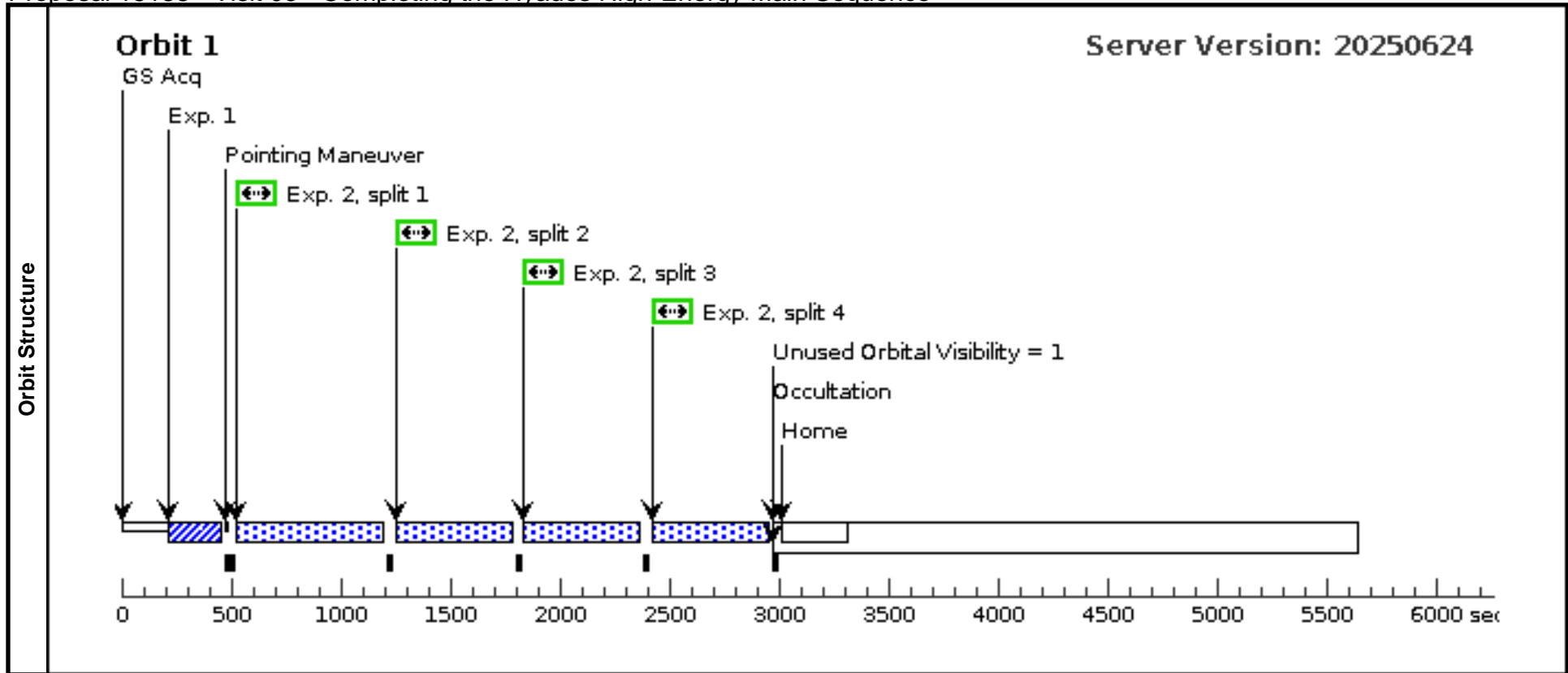
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Proposal 18188 - Visit 05 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

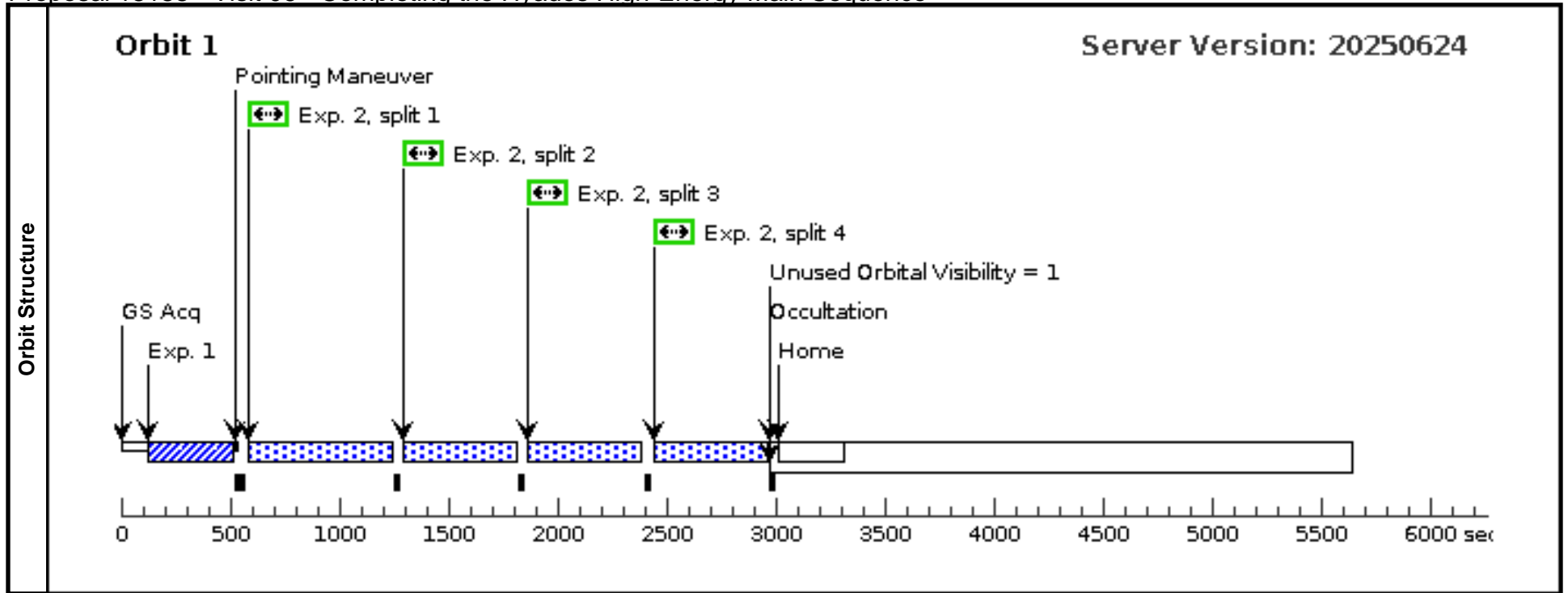
Visit		Proposal 18188, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	HD-27282	RA: 04 19 8.0079 (64.7833663d) Dec: +17 31 29.12 (17.52476d) Equinox: J2000	Proper Motion RA: +113.125 mas/yr Proper Motion Dec: -27.852 mas/yr Parallax: 0.0213907" Epoch of Position: 2000 Radial Velocity: +38.09 km/sec	V=8.427+/-0.1	Reference Frame: ICRS				
	<i>Comments:</i> Category=STAR Description=[G V-IV] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.202 6681)	(5) HD-27282	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				10 Secs (10 Secs)	
		<i>Comments: Spectrum: Castelli-Kurucz Models G8V 5500 4.5</i> <i>Extinction E(B-V): None</i> <i>Normalization: Renormalized to vegamag = 8.427 in filter Johnson/V</i>								[==>]
2	(COS.sp.202 6696)	(5) HD-27282	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			482 Secs (1928 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	
<i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i>										



Proposal 18188 - Visit 06 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

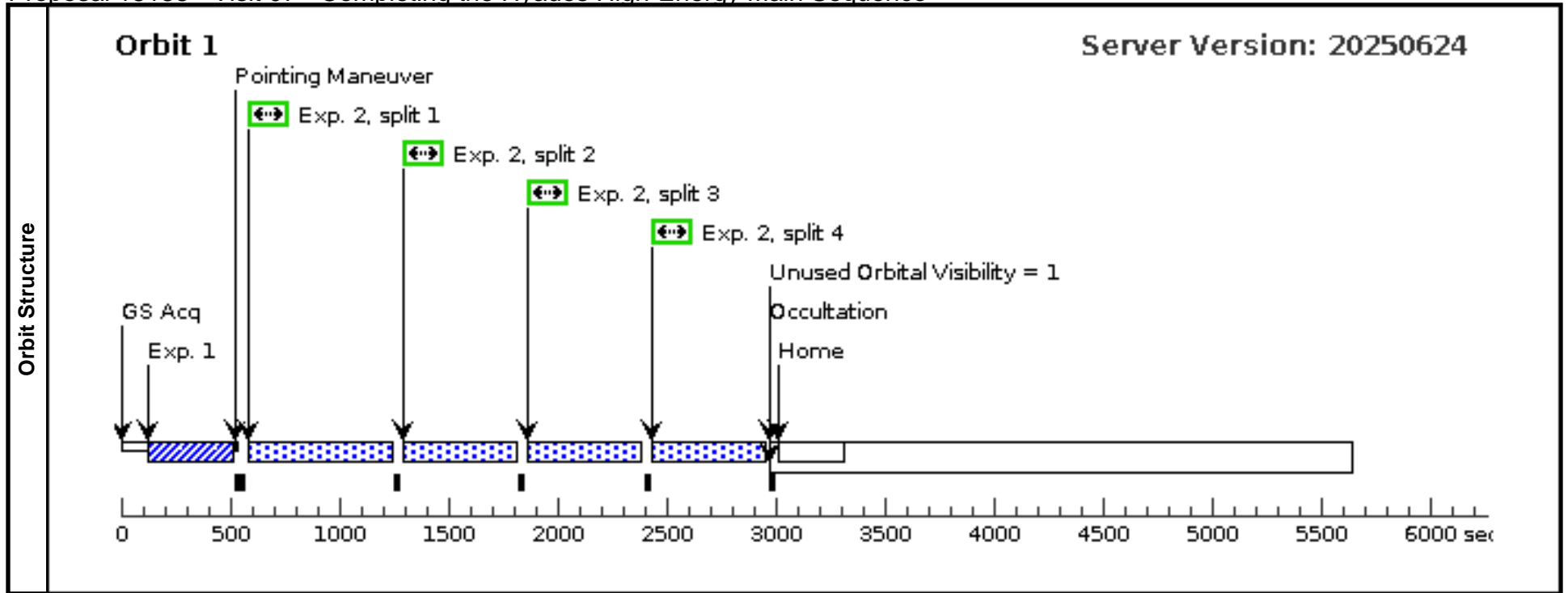
Visit	Proposal 18188, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																											
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>HD-27406</td> <td>RA: 04 20 12.9666 (65.0540275d) Dec: +19 14 0.52 (19.23348d) Equinox: J2000</td> <td>Proper Motion RA: +114.586 mas/yr Proper Motion Dec: -35.172 mas/yr Parallax: 0.022020" Epoch of Position: 2000 Radial Velocity: +38.40 km/sec</td> <td>V=7.444+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments:</i> Category=STAR Description=[F3-F9] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	HD-27406	RA: 04 20 12.9666 (65.0540275d) Dec: +19 14 0.52 (19.23348d) Equinox: J2000	Proper Motion RA: +114.586 mas/yr Proper Motion Dec: -35.172 mas/yr Parallax: 0.022020" Epoch of Position: 2000 Radial Velocity: +38.40 km/sec	V=7.444+/-0.1	Reference Frame: ICRS																																						
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																							
(6)	HD-27406	RA: 04 20 12.9666 (65.0540275d) Dec: +19 14 0.52 (19.23348d) Equinox: J2000	Proper Motion RA: +114.586 mas/yr Proper Motion Dec: -35.172 mas/yr Parallax: 0.022020" Epoch of Position: 2000 Radial Velocity: +38.40 km/sec	V=7.444+/-0.1	Reference Frame: ICRS																																																							
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(COS.ta.202 6684)</td> <td>(6) HD-27406</td> <td>COS/NUV, ACQ/IMAGE, BOA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>38 Secs (38 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> <i>Comments: Spectrum: Castelli-Kurucz Models F8V 6250 4.0 Extinction E(B-V): None Normalization: Renormalized to vegamag = 7.444 in filter Johnson/V</i> </td> </tr> <tr> <td>2</td> <td>(COS.sp.202 6696)</td> <td>(6) HD-27406</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 1105 A</td> <td>BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A</td> <td></td> <td></td> <td>468 Secs (1872 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> <i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i> </td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(COS.ta.202 6684)	(6) HD-27406	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				38 Secs (38 Secs) [==>]	[1]	<i>Comments: Spectrum: Castelli-Kurucz Models F8V 6250 4.0 Extinction E(B-V): None Normalization: Renormalized to vegamag = 7.444 in filter Johnson/V</i>										2	(COS.sp.202 6696)	(6) HD-27406	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			468 Secs (1872 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	<i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i>									
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																			
1	(COS.ta.202 6684)	(6) HD-27406	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				38 Secs (38 Secs) [==>]	[1]																																																			
<i>Comments: Spectrum: Castelli-Kurucz Models F8V 6250 4.0 Extinction E(B-V): None Normalization: Renormalized to vegamag = 7.444 in filter Johnson/V</i>																																																												
2	(COS.sp.202 6696)	(6) HD-27406	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			468 Secs (1872 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																																																			
<i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i>																																																												



Proposal 18188 - Visit 07 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

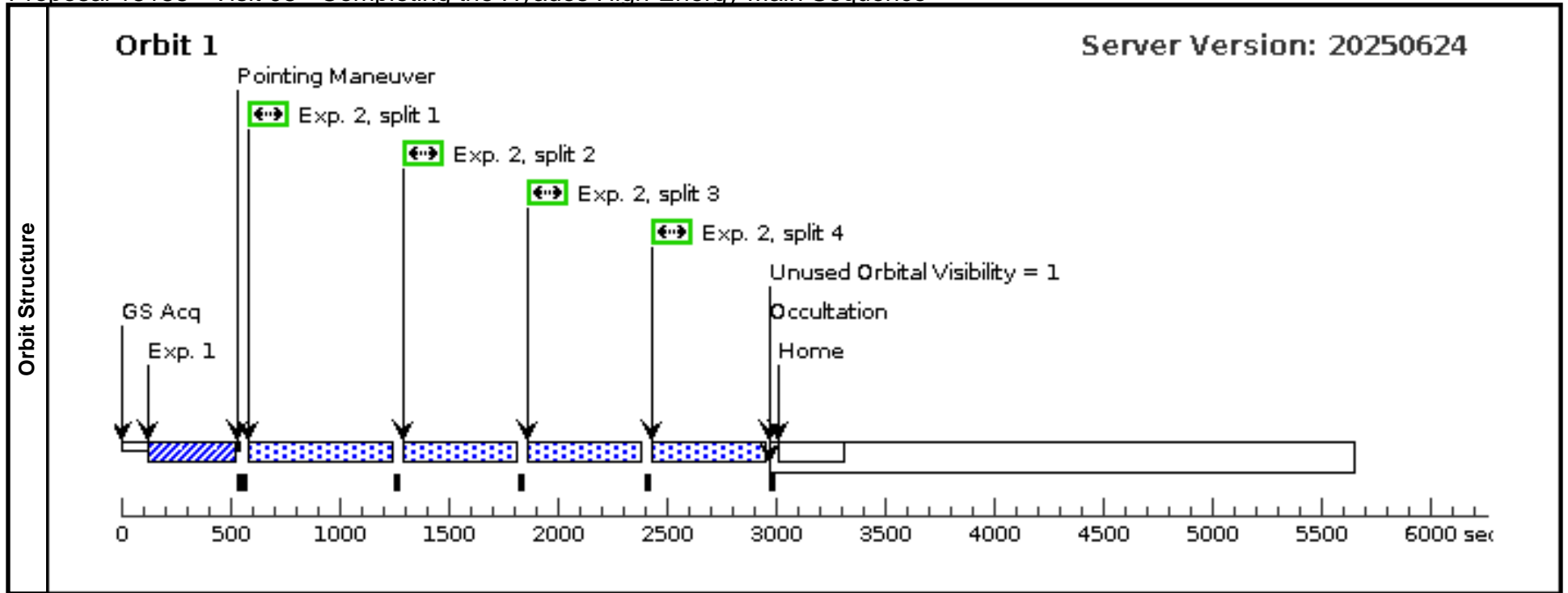
Visit	Proposal 18188, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(7)	HD-28205	RA: 04 27 35.8912 (66.8995467d) Dec: +15 35 21.09 (15.58919d) Equinox: J2000	Proper Motion RA: +105.167 mas/yr Proper Motion Dec: -23.914 mas/yr Parallax: 0.021284" Epoch of Position: 2000 Radial Velocity: +39.24 km/sec	V=7.404+/-0.1	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[F3-F9] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.202 6685)	(7) HD-28205	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				36 Secs (36 Secs) [==>]	[1]
	<i>Comments: Spectrum: Castelli-Kurucz Models F8V 6250 4.0</i> <i>Extinction E(B-V): None</i> <i>Normalization: Renormalized to vegamag = 7.404 in filter Johnson/V</i>									
	2	(COS.sp.202 6696)	(7) HD-28205	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			469 Secs (1876 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	<i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i>									



Proposal 18188 - Visit 08 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

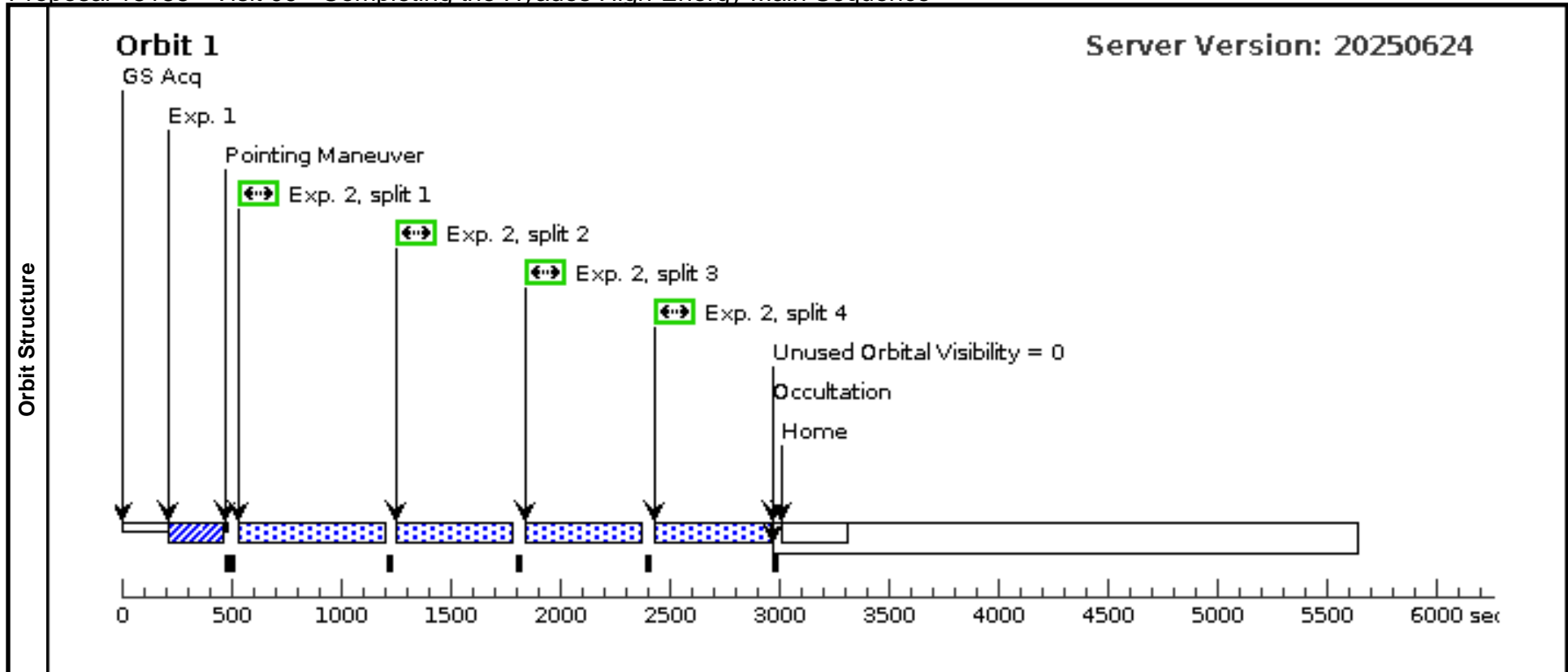
Visit	Proposal 18188, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	HD-28237	RA: 04 27 46.0746 (66.9419775d) Dec: +11 44 11.11 (11.73642d) Equinox: J2000	Proper Motion RA: +110.052 mas/yr Proper Motion Dec: -12.423 mas/yr Parallax: 0.0221517" Epoch of Position: 2000 Radial Velocity: +39.63 km/sec	V=7.482+/-0.1	Reference Frame: ICRS				
	Comments: Category=STAR Description=[F3-F9] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.202 6686)	(8) HD-28237	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				39 Secs (39 Secs) [==>]	[1]
	Comments: Spectrum: Castelli-Kurucz Models F8V 6250 4.0 Extinction E(B-V): None Normalization: Renormalized to vegamag = 7.482 in filter Johnson/V									
	2	(COS.sp.202 6696)	(8) HD-28237	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			467 Secs (1868 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.									



Proposal 18188 - Visit 09 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

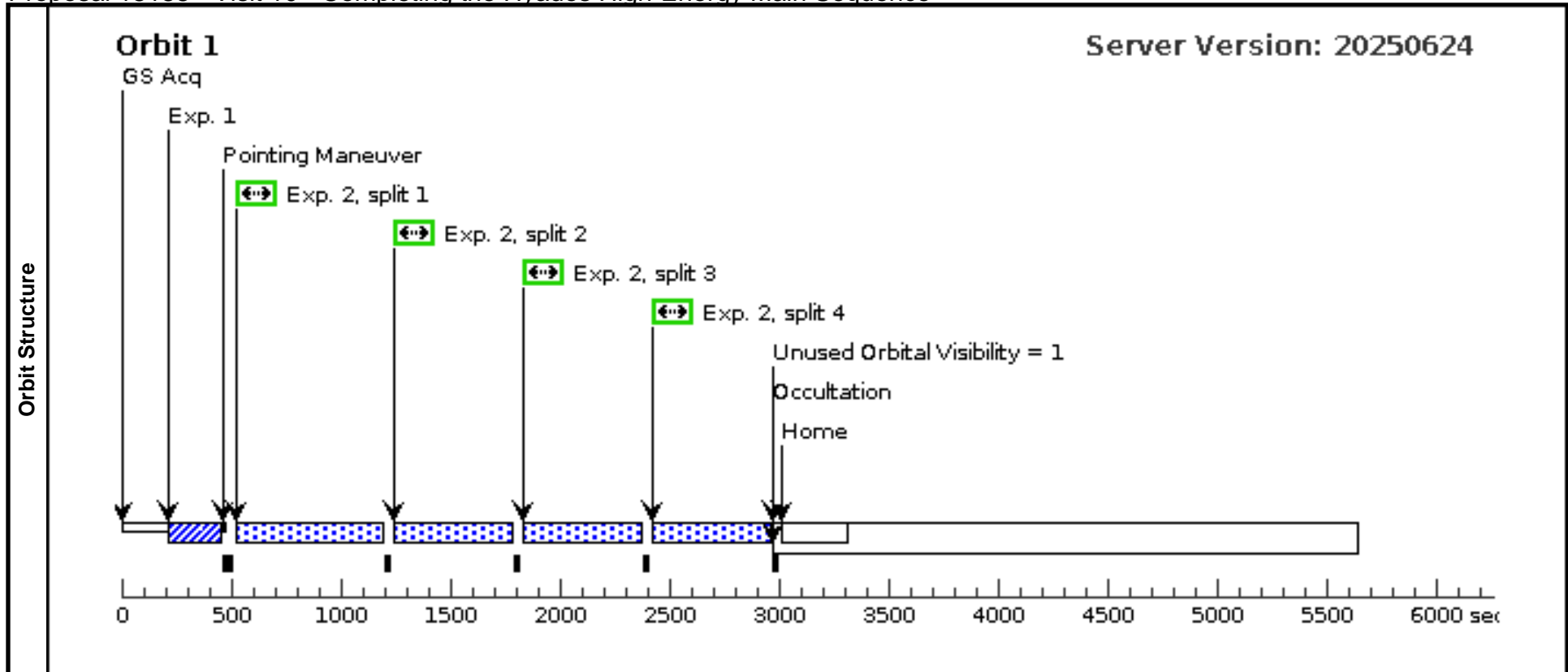
Visit	Proposal 18188, Visit 09, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																								
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>HD-28593</td> <td>RA: 04 31 15.6941 (67.8153921d) Dec: +20 07 59.41 (20.13317d) Equinox: J2000</td> <td>Proper Motion RA: +106.533 mas/yr Proper Motion Dec: -39.295 mas/yr Parallax: 0.0217095" Epoch of Position: 2000 Radial Velocity: +39.83 km/sec</td> <td>V=8.572+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments:</i> Category=STAR Description=[G V-IV] Extended=NO</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	HD-28593	RA: 04 31 15.6941 (67.8153921d) Dec: +20 07 59.41 (20.13317d) Equinox: J2000	Proper Motion RA: +106.533 mas/yr Proper Motion Dec: -39.295 mas/yr Parallax: 0.0217095" Epoch of Position: 2000 Radial Velocity: +39.83 km/sec	V=8.572+/-0.1	Reference Frame: ICRS																												
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																				
(9)	HD-28593	RA: 04 31 15.6941 (67.8153921d) Dec: +20 07 59.41 (20.13317d) Equinox: J2000	Proper Motion RA: +106.533 mas/yr Proper Motion Dec: -39.295 mas/yr Parallax: 0.0217095" Epoch of Position: 2000 Radial Velocity: +39.83 km/sec	V=8.572+/-0.1	Reference Frame: ICRS																																				
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(COS.ta.202 6688)</td> <td>(9) HD-28593</td> <td>COS/NUV, ACQ/IMAGE, BOA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>11.5 Secs (11.5 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> <i>Comments: Spectrum: Castelli-Kurucz Models G8V 5500 4.5 Extinction E(B-V): None Normalization: Renormalized to vegamag = 8.572 in filter Johnson/V</i> </td> </tr> <tr> <td>2</td> <td>(COS.sp.202 6696)</td> <td>(9) HD-28593</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 1105 A</td> <td>BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A</td> <td></td> <td></td> <td>482 Secs (1928 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]</td> <td>[1]</td> </tr> </tbody> </table> <p><i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i></p>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(COS.ta.202 6688)	(9) HD-28593	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				11.5 Secs (11.5 Secs) [==>]	[1]	<i>Comments: Spectrum: Castelli-Kurucz Models G8V 5500 4.5 Extinction E(B-V): None Normalization: Renormalized to vegamag = 8.572 in filter Johnson/V</i>										2	(COS.sp.202 6696)	(9) HD-28593	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			482 Secs (1928 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																
1	(COS.ta.202 6688)	(9) HD-28593	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				11.5 Secs (11.5 Secs) [==>]	[1]																																
<i>Comments: Spectrum: Castelli-Kurucz Models G8V 5500 4.5 Extinction E(B-V): None Normalization: Renormalized to vegamag = 8.572 in filter Johnson/V</i>																																									
2	(COS.sp.202 6696)	(9) HD-28593	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			482 Secs (1928 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																																



Proposal 18188 - Visit 10 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

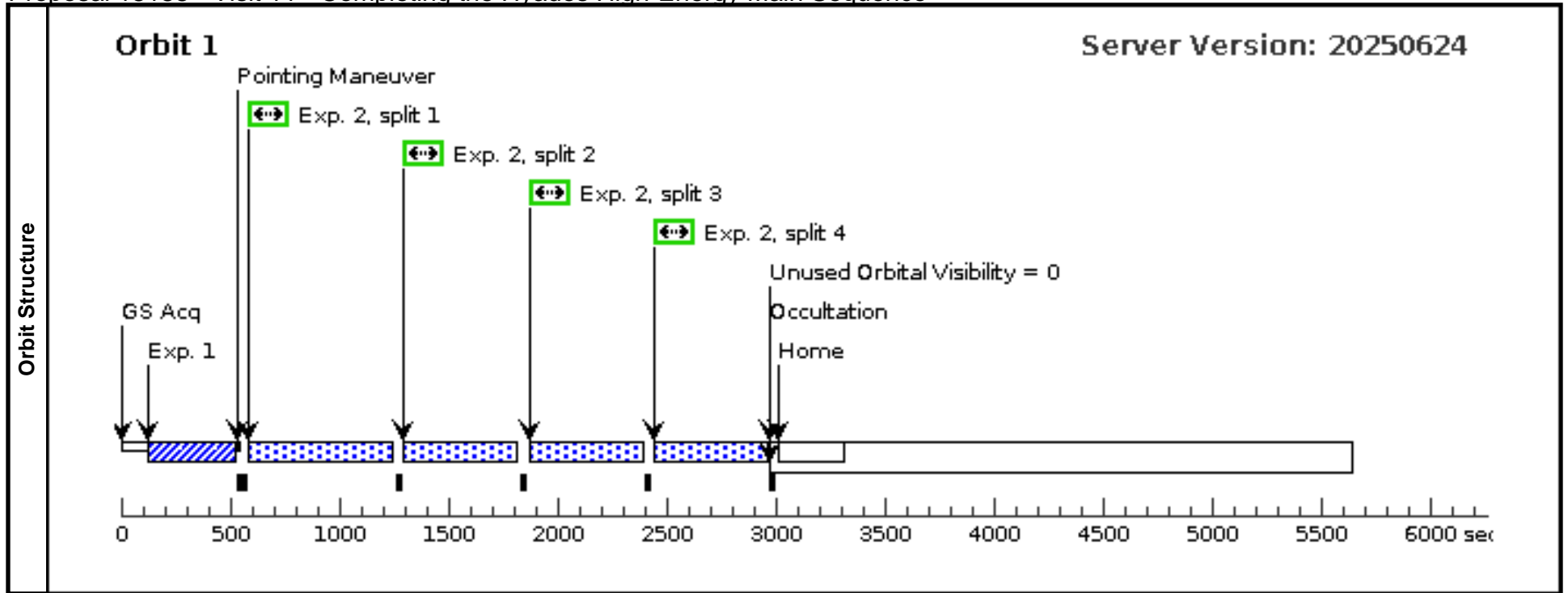
Visit		Proposal 18188, Visit 10, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	HD-28992	RA: 04 34 35.3101 (68.6471254d) Dec: +15 30 16.64 (15.50462d) Equinox: J2000	Proper Motion RA: +100.963 mas/yr Proper Motion Dec: -26.814 mas/yr Parallax: 0.021669" Epoch of Position: 2000 Radial Velocity: +40.43 km/sec	V=7.898+/-0.1	Reference Frame: ICRS				
Comments: Category=STAR Description=[G V-IV] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.202 6691)	(10) HD-28992	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				6 Secs (6 Secs)	
	Comments: Spectrum: Castelli-Kurucz Models G2V 5750 4.5 Extinction E(B-V): None Normalization: Renormalized to vegamag = 7.898 in filter Johnson/V									[I]
2	(COS.sp.202 6696)	(10) HD-28992	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A				484 Secs (1936 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[I]
Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.										



Proposal 18188 - Visit 11 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

Visit	Proposal 18188, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(11)	HD-29419	RA: 04 38 51.2920 (69.7137167d) Dec: +23 08 59.90 (23.14997d) Equinox: J2000	Proper Motion RA: +105.627 mas/yr Proper Motion Dec: -54.239 mas/yr Parallax: 0.0230344" Epoch of Position: 2000 Radial Velocity: +39.14 km/sec	V=7.501+/-0.1	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[G V-IV] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.202 6692)	(11) HD-29419	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				39.5 Secs (39.5 Secs) [==>]	[1]
	<i>Comments: Spectrum: Castelli-Kurucz Models F8V 6250 4.0</i> <i>Extinction E(B-V): None</i> <i>Normalization: Renormalized to vegamag = 7.501 in filter Johnson/V</i>									
	2	(COS.sp.202 6696)	(11) HD-29419	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00; FP-POS=ALL; SEGMENT=A			468 Secs (1872 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	<i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i>									



Proposal 18188 - Visit 12 - Completing the Hyades High-Energy Main Sequence

Wed Nov 05 14:00:18 GMT 2025

Visit	Proposal 18188, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	HD-30589	RA: 04 49 32.1249 (72.3838537d) Dec: +15 53 19.47 (15.88874d) Equinox: J2000	Proper Motion RA: +86.742 mas/yr Proper Motion Dec: -25.516 mas/yr Parallax: 0.0206244" Epoch of Position: 2000 Radial Velocity: +41.52 km/sec	V=7.739+/-0.1	Reference Frame: ICRS				
	<i>Comments:</i> Category=STAR Description=[F3-F9] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.214 5935)	(12) HD-30589	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				116 Secs (116 Secs)	
		<i>Comments: Spectrum: Castelli-Kurucz Models F8V 6250 4.0</i> <i>Extinction E(B-V): None</i> <i>Normalization: Renormalized to abmag = 12.98 in filter GALEX/NUV</i>							[==>]	[1]
	2	(COS.sp.202 6696)	(12) HD-30589	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=83 00;	FP-POS=ALL; SEGMENT=A		429 Secs (1716 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	<i>Comments: User uploaded spectrum: CHI1ORI-to-Hyads.txt-- Hyades age G0 dwarf Chi1 Orionis STIS FUV+NUV echelle spectra scaled to average 46 pc distance of Hyades targets.</i>									

